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L1 STRUCTURE UPLOADED

=> d 11

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L1 STR

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=> s 11

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SAMPLE SCREEN SEARCH COMPLETED - 5144 TO ITERATE

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BATCH **COMPLETE**

PROJECTED ITERATIONS: 98579 TO 107181 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 11:34:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 101816 TO ITERATE

100.0% PROCESSED 101816 ITERATIONS

SEARCH TIME: 00.00.01

6 ANSWERS

0 ANSWERS

=> d 13 scan

L3 6 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid,

16-[3-[(16-carboxy-3,6,9,12,15-pentaoxahexadec-1-yl)oxy]-5-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]
, 1-(9H-fluoren-9-ylmethyl) ester

MF C68 H90 N2 O22

PAGE 1-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):file caplus 'FILE CAPLUS' IS NOT VALID HERE

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FILE LAST UPDATED: 30 Jun 2009 (20090630/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Apr 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Apr 2009

CAplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2009.

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=> s 13 L4 3 L3 => d 14 ibib abs hitstr 1-YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:406941 CAPLUS

DOCUMENT NUMBER: 141:273853

TITLE: Design and synthesis of novel hydrophilic spacers for

the reduction of nonspecific binding proteins on

affinity resins

AUTHOR(S): Shiyama, Takaaki; Furuya, Minoru; Yamazaki, Akira;

Terada, Tomohiro; Tanaka, Akito

CORPORATE SOURCE: Chemistry Department, Reverse Proteomics Research

Institute Co., Ltd, Chiba, 292-0818, Japan

SOURCE: Bioorganic & Medicinal Chemistry (2004), 12(11),

2831-2841

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:273853

AB Tubulin and actin often bind nonspecifically to affinity chromatog. resins, complicating research toward identifying the cellular targets. Reduction of nonspecific binding proteins is important for success in finding such targets. We herein disclose the design, synthesis, and effectiveness in reduction of nonspecific binding proteins, of novel hydrophilic spacers (2-5), which were introduced between matrixes and a ligand. Among them, tartaric acid derivative (5) exhibited the most effective reduction of nonspecific

binding proteins, while maintaining binding of the target protein. Introduction of 5 on TOYOPEARL reduced tubulin and actin by almost 65% and 90% compared to that without the hydrophilic spacer, resp., with effective binding to the target protein, FKBP12.

IT 675606-56-1P 675606-57-2P 675606-58-3P

RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)

(design and synthesis of novel hydrophilic spacers for reduction of nonspecific binding proteins on affinity resins)

RN 675606-56-1 CAPLUS

CN 3,6,9,12,15-Pentaoxaheptadecanoic acid,

17-[4-[(14-amino-3,6,9,12-tetraoxatetradec-1-yl)oxy]phenoxy]-,

1,1-dimethylethyl ester (CA INDEX NAME)

PAGE 1-A

H₂N-CH₂-CH₂-O-CH₂-CH₂-CH₂-O-CH₂-CH₂-CH₂-O-CH₂-CH₂-O-CH₂-CH₂-CH₂-O-CH₂

RN 675606-57-2 CAPLUS

CN 3,6,9,12,15-Pentaoxaheptadecanoic acid, 17-[4-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

PAGE 1-A

RN 675606-58-3 CAPLUS
CN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid,
16-[4-[(16-carboxy-3,6,9,12,15-pentaoxahexadec-1-y1)oxy]phenoxy]-,
1-(9H-fluoren-9-ylmethy1) ester (CA INDEX NAME)

$${\tt PAGE\ 1-A}\\ {\tt HO_2C-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-$$

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REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:252751 CAPLUS

DOCUMENT NUMBER: 140:283950

TITLE: Synthesis of hydrophilic spacers that can reduce

nonspecific adsorption of molecules to the surface of solid phase matrix and application to preparation of

affinity ligand-immobilized matrixes

INVENTOR(S): Tanaka, Akito; Terada, Tomohiro; Tamura, Tsurunori;

Ichiyama, Takaaki; Yamazaki, Akira; Furuya, Minoru;

Haramura, Masayuki

PATENT ASSIGNEE(S): Reverse Proteomics Research Institute Co., Ltd.,

Japan; Fujisawa Pharmaceutical Co., Ltd.

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.					D	DATE		APPLICATION NO.					DATE			
WO					A1 20040325			WO 2003-JP9640									
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KR,	KΖ,	LC,	LK,	LR,	LS,
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,	PG,
		PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	TM,	TN,	TR,
		TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW				
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FΙ,	FR,	GB,	GR,	HU,	ΙE,	ΙΤ,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG
AU	AU 2003254782				A1		2004	0430	AU 2003-254782					20030730			
EP	1553412				A1	A1 20050713			EP 2003-795206					20030730			
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
										US 2006-522716				20060120			
PRIORIT	RIORITY APPLN. INFO.:									JP 2002-222226				A 20020730			
							WO 2003-JP9640				Ī	W 20030730					

OTHER SOURCE(S): MARPAT 140:283950

Chemical modification method for reducing nonspecific adsorption of mols. to the surface of solid phase matrixes in order to promote specific interaction of immobilized mols. with the target partner mols. The strategy includes the controlling the hydrophobicity of the surface by introducing hydrophilic spacers. These hydrophilic spacers are designed to have \geq 6 hydrogen bond acceptors, \geq 5 hydrogen bond donors and their sum are ≥ 9 , ≥ 1 carbonyl group, no charged groups. The specific structures for the hydrophilic spacers with reactive carbonyl and amino groups have been designed and synthesized. The hydrophilic spacers have the structures of polyols containing methylenes with linear or branched alkyl group of 1.apprx.3 carbon or -CH2OH, the two or three polyethylene glycol chains (1 .apprx. 1000 EG units) linked to phenol derivs., and alkyl chain (C: n = 1 .apprx. 10) linked with 1 .apprx. 10 unit(s) of (-0-C(R1,R2)C(R3,R4)-) (R1-R4: linear or branched alkyl of 1.apprx.3 carbon). The matrixes with these spacers can be used for immobilization of various sizes of ligands (low or high mol. weight) and for analyses of their interaction with the target partner mols. of various mol. sizes. The applications of some hydrophilic spacers to immobilization of affinity ligands such as FK506 to TOYO-pearl AF-amino resin or gold-film matrixes and detection of FKBP12 protein in rat brain

lysate by using the prepared FK506-matrix were demonstrated.

IT 675606-75-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(potential use as hydrophilic spacer; synthesis of hydrophilic spacers that can reduce nonspecific adsorption of mols. to surface of solid phase matrix and application to preparation of affinity ligand-immobilized matrixes)

RN 675606-75-4 CAPLUS

CN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid, 16-[3-[(16-carboxy-3,6,9,12,15-pentaoxahexadec-1-yl)oxy]-5-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]-, 1-(9H-fluoren-9-ylmethyl) ester (CA INDEX NAME)

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IT 675606-56-1P 675606-57-2P 675606-74-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of hydrophilic spacers that can reduce nonspecific adsorption of mols. to surface of solid phase matrix and application to preparation of affinity ligand-immobilized matrixes)

RN 675606-56-1 CAPLUS

CN 3,6,9,12,15-Pentaoxaheptadecanoic acid, 17-[4-[(14-amino-3,6,9,12-tetraoxatetradec-1-yl)oxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

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RN 675606-57-2 CAPLUS

CN 3,6,9,12,15-Pentaoxaheptadecanoic acid, 17-[4-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]-, 1,1-dimethylethyl ester (CA INDEX NAME)

RN 675606-74-3 CAPLUS

CN

5,8,11,14-Tetraoxa-2-azahexadecanoic acid,
16-[3-[(19,19-dimethyl-17-oxo-3,6,9,12,15,18-hexaoxaeicos-1-yl)oxy]-5-[[18-(9H-fluoren-9-yl)-16-oxo-3,6,9,12,17-pentaoxa-15-azaoctadec-1-yl]oxy]phenoxy]-, 9H-fluoren-9-ylmethyl ester (CA INDEX NAME)

PAGE 1-A

IT 675606-58-3P

RL: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

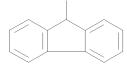
(used as hydrophilic spacer, linked to TOYO-Pearl resin; synthesis of hydrophilic spacers that can reduce nonspecific adsorption of mols. to surface of solid phase matrix and application to preparation of affinity ligand-immobilized matrixes)

RN 675606-58-3 CAPLUS

CN 5,8,11,14-Tetraoxa-2-azahexadecanoic acid, 16-[4-[(16-carboxy-3,6,9,12,15-pentaoxahexadec-1-y1)oxy]phenoxy]-, 1-(9H-fluoren-9-ylmethy1) ester (CA INDEX NAME)

PAGE 1-A HO₂C-CH₂-O-CH₂-CH₂-O-CH₂-CH₂-O-CH₂-CH₂-O-CH₂

PAGE 3-B



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1996:516284 CAPLUS

DOCUMENT NUMBER: 125:247294

ORIGINAL REFERENCE NO.: 125:46221a,46224a

TITLE: Syntheses of ligands containing two and three

2,2'-(bisamino)diphenyl ether units designed for

molecular self-assembly on lithiation

AUTHOR(S): Ashton, Peter R.; Hoerner, Bernd; Kocian, Oldrich;

Menzer, Stephan; White, Andrew J. P.; Stoddart, J.

Fraser; Williams, David J.

CORPORATE SOURCE: School Chem., Univ. Birmingham, Birmingham, B15 2TT,

UK

SOURCE: Synthesis (1996), (8), 930-940

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Thieme
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The syntheses of polyamines containing 2-3 2,2'-(bisamino)diphenyl ether units linked together, designed for self-assembly following lithiation, are reported. The x-ray crystal structures of 2 of the bis[2,2-(bisamino)diphenyl ethers] are described. The ligand, which is linked by an ethylene glycol spacer, exhibits a coiled conformation by intramol. H bonds and supplemented by $[CH-\pi]$ interactions. The ligand,

which is linked by a more rigid bridge, containing a paraphenylene unit,

displays a stretched conformation stabilized by intramol. edge to face interactions.

IT 181725-62-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of ligands with (bisamino)diphenyl ether units)

RN 181725-62-2 CAPLUS

CN Acetamide, 2,2'-[oxybis(2,1-phenyleneimino-2,1-ethanediyloxy-2,1-ethanediyloxy-4,1-phenyleneoxy-2,1-ethanediyloxy)]bis[N-[2-[2-[(methoxyacetyl)amino]phenoxy]phenyl]- (9CI) (CA INDEX NAME)

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PAGE 2-A

R---- O------

